NC/QC/DD-W13/2019-20/BG2-C1

Date: 03-05-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	165 min	Shall not be less than 30 min
2	Final setting time	275 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	2.03 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	2.18 mm	Shall not be more than 10 mm
5	Compressive strength a) 3 days (average of three results)	28.25 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/DD-W13/2019-20/BG2-PCC1

Date: 03-05-2019

1. TESTING OF COARSE AND FINE AGGREGATES:

Sub: Testing of Coarse and Fine aggregates to be used for bed concrete.
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

1. COARSE AGGRGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2007) % Passing	
	40 mm Sample	Single size	Graded
40mm	100.00	85-100	90 – 100
20mm	65.15	0 -20	30- 70
10mm	36.50	0 -5	10- 35
4.75mm	4.10	------	0- 5

2. FINE AGGREGATES TABLE - SIEVE ANALYSIS:

IS Sieve Size, mm	Percentage Passing	Specification as Per IS: 383-1970(Reaffirmed 2002) Percentage Passing			Remarks
		Zone-I	Zone-II	Zone -III	
04.75	97.15	90-100	90-100	90-100	The Sample Conforms to Grading **Zone-II**
02.36	85.30	60-95	75-100	85-100	
01.18	63.05	30-70	55-90	75-100	
600.mic	56.90	15-34	35-59	60-79	
300.mic	23.45	5-20	8-30	12-40	
150.mic	6.10	0-10	0-10	0-10	

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NC/QC/DD-W13/2019-20/BG2-C2

Date: 08-05-2019

1. TEST REPORT ON CEMENT:

Sub: Testing of 53 Grade Cement Sample (IS 12269-1987).
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

PHYSICAL TESTS ON CEMENT

Grade * : 53,
Type * : O.P.C

TABLE 1.1:

SL No	Name of Test	Test Results	Requirements as per IS 8112-1989
1	Initial setting time	158 min	Shall not be less than 30 min
2	Final setting time	270 min	Shall not be more than 600 min
3	Fineness (by dry sieving on IS 90 micron sieve)	1.85 %	Not to exceed 10.0%
4	Soundness test(by Le-Chatelier's method)	1.95 mm	Shall not be more than 10 mm
5	Compressive strength b) 3 days (average of three results)	29.03 N/Sq mm	Shall not be less than 27 N/Sqmm

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NC/QC/DD-W13/2019-20/BG2-CA1

Date: 13-05-2019

1. TESTING OF COARSE AGGREGATES (20 mm):

Sub: Testing of Construction Materials.
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

Table - 1.1 : SIEVE ANALYSIS :

IS Sieve Size, mm	Percentage passing	Requirements as per IS 383-1970 (Reaffirmed on 2002) % Passing	
	20 mm Sample	Single size	Graded
40 mm	100.00	100.00	100.00
20 mm	96.10	85-100	90 - 100
10 mm	35.60	0 - 20	25 - 55
4.75 mm	4.25	0 - 5	0 - 10

TABLE 1.2 :

SL No	Test conducted	Results	Requirements as per IS:383-1970 & Tests Conforms to IS 2386(Part I to IV) – 1963 (Reaffirmed on 2002)
1.	Flakiness Index	22.78	Not to exceed 25 %
2.	Crushing value	25.46 %	Not to exceed 45 % for concrete other than for wearing surfaces and 30% for concrete for wearing surfaces

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NC/QC/DD-W13/2019-20/BG2-S1

Date: 13-05-2019

1. TEST REPORT ON REINFORCEMENT STEEL:

Sub: Testing of Reinforcement Steel of diameter 12 and 16 mm **TMT Steel.**
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

TABLE – 1

SL No	Details	For 12 mm		For 16 mm	
		Test Results	Min Req. as per IS 1786-2008	Test Results	Min Req. as per IS 1786-2008
01	Observed diameter of bar	**12.0 mm**	12.0 mm	**16.0 mm**	16.0 mm
02	Observed Wt/m Length **Kg/m**	**0.893**	0.834	**1.596**	1.483
03	Proof stress/Yield stress, fy , **N/mm^2**	**556.0**	500.0	**545.0**	500.0
04	Bend/ Re bend Test	**Ok**	---	**Ok**	---
05	Percentage of Elongation, %	**20.50**	12.00	**1940**	12.00
06	Ultimate Tensile Strength **N/mm^2**	**635.0**	545.0	**639.0**	545.0

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NC/QC/DD-W13/2019-20/BG2-CB2

Date: 22-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
Dasarahalli Project Division,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	15-05-19	22-05-19	07	22500	430	19.11	19.48
	002	"	"	"	"	450	20.00	
	003	"	"	"	"	435	19.33	

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NC/QC/DD-W13/2019-20/BG2-CB4

Date: 25-05-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-05-19	25-05-19	07	22500	435	19.33	19.78
	002	"	"	"	"	445	19.78	
	003	"	"	"	"	455	20.22	

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NC/QC/DD-W13/2019-20/BG2-CB4A

Date: 15-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{25}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	18-05-19	15-06-19	28	22500	630	28.00	**27.63**
	002	"	"	"	"	620	27.56	
	003	"	"	"	"	615	27.33	

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1. TEST REPORT ON PRE –CAST SOLID BLOCKS: Date: 28-05-2019

Sub: Testing of Pre-Cast Solid Block- Compressive strength.
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON PRE CAST(Solid Blocks)

BLOCK SPECIMENS

TABLE 1. 1:

Sl No.	Dimensions of Specimen mm	Details	Cross Sectional Area mm^2	Maximum Load in KN	Compressive Strength N/mm^2	Average Compressive Strength N/mm^2
1	400 X 200 X 200	**Solid**	80000	425	5.31	**5.29**
2	,,	,,	80000	415	5.18	
3	,,	,,	80000	430	5.38	

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NC/QC/DD-W13/2019-20/BG2-CB5

Date: 07-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 07days Compressive Strength).
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm
Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	31-05-19	07-06-19	07	22500	365	16.22	**16.30**
	002	"	"	"	"	360	16.00	
	003	"	"	"	"	375	16.67	

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NC/QC/DD-W13/2019-20/BG2-CB5A

Date: 28-06-2019

1. TEST REPORT ON CEMENT CONCRETE CUBES:

Sub: Testing of Concrete Cubes (for 28days Compressive Strength).
{Project*: Development of Burial Ground Ward No-13, C Category Part-2.}
Ref.: Material testing/PMC/18-19,
Report Required for: Assistant Executive Engineer,
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BBMP, Bangalore.
Name of the Agency/Contractor*: M/s KRIDL, Bangalore.

RESULTS OF COMPRESSIVE STRENGTH ON CEMENT CONCRETE

CUBE SPECIMENS

Dimensions of Specimen : 150 X 150 X 150mm

Grade of Concrete* : M_{20}

TABLE 1.1:

Sl No	Location/ Identification*	Date of Casting*	Date of Testing	Age in Days	C/S Area in mm^2	Maximum Load in K.N	Compressive Strength (N/mm^2)	Avg. Value
1	001	31-05-19	28-06-19	28	22500	515	22.89	**22.81**
	002	"	"	"	"	505	22.44	
	003	"	"	"	"	520	23.11	

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